IC (Top View)

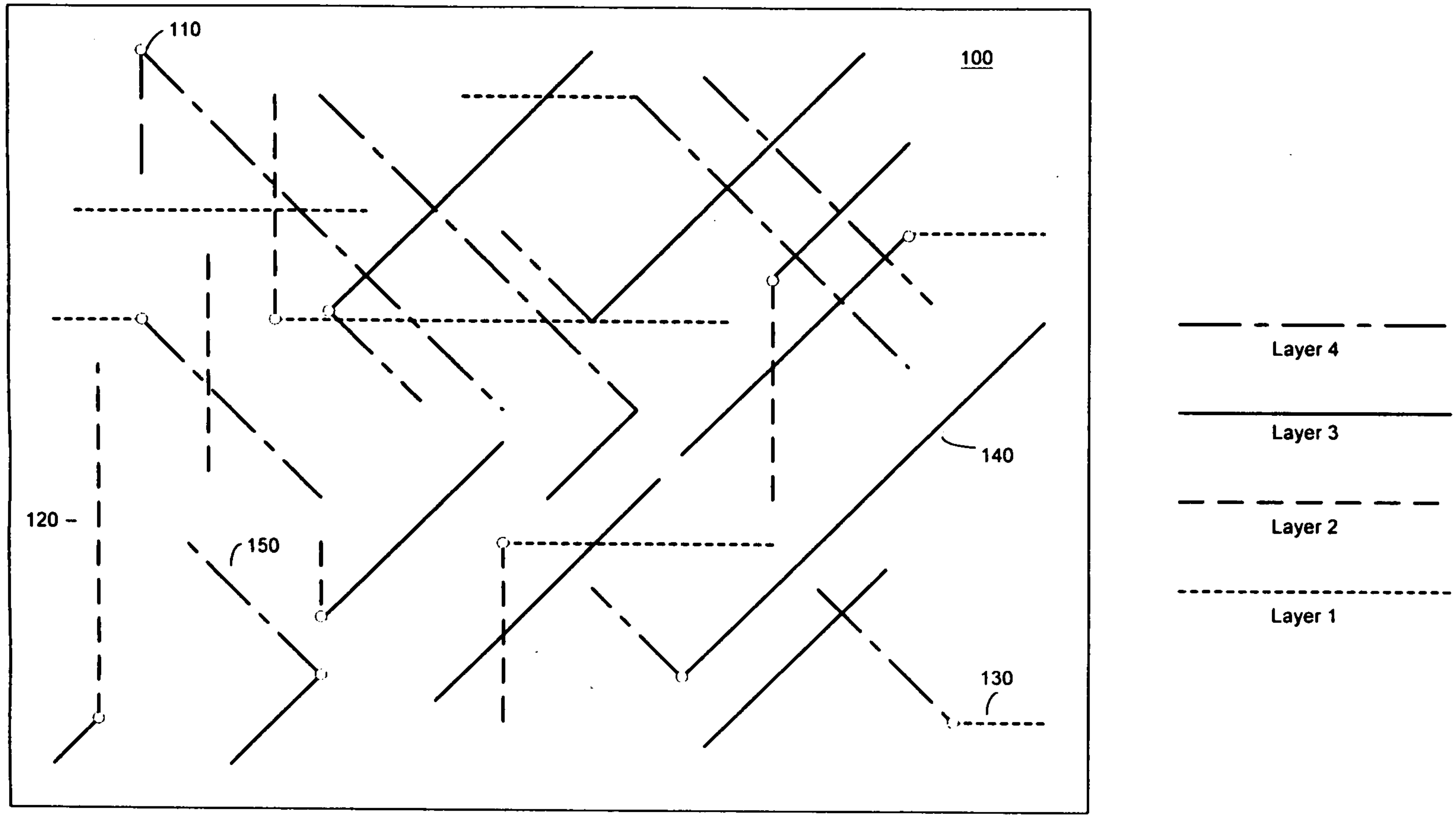


Figure 1a

IC (Top View)

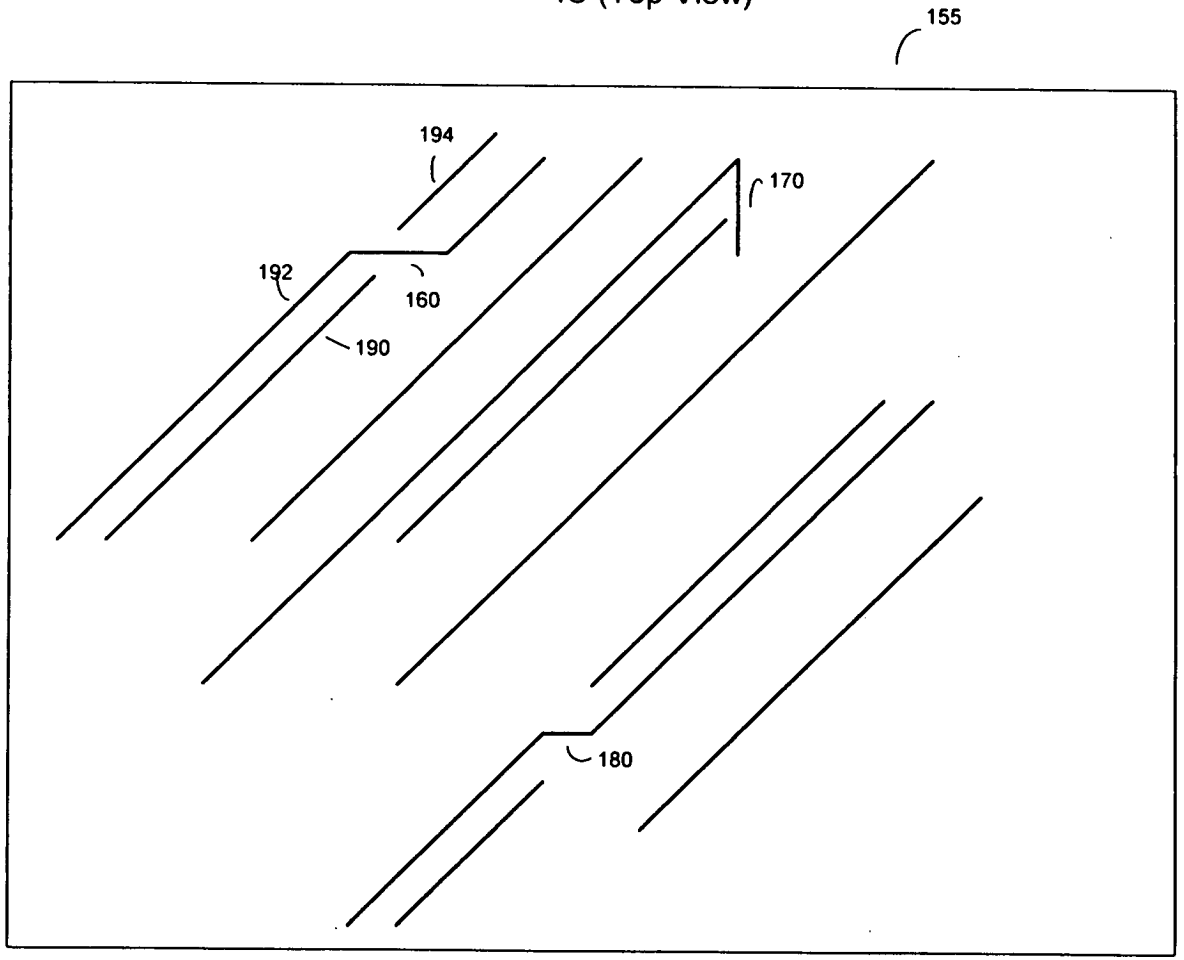
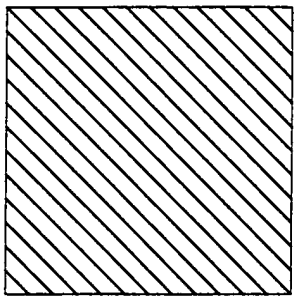
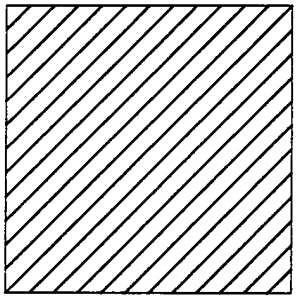


Figure 1b



Layer "n+1"

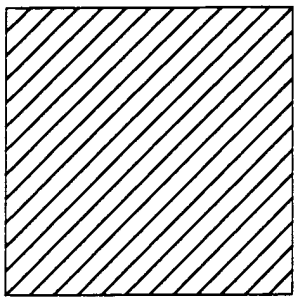
Octalinear (-45 Deg.)



Layer "n"

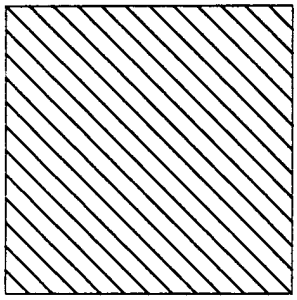
Octalinear (+45 Deg.)

Figure 2a



Layer "n+1"

Octalinear (+45 Deg.)



Layer n

Octalinear (-45 Deg.)

Figure 2b

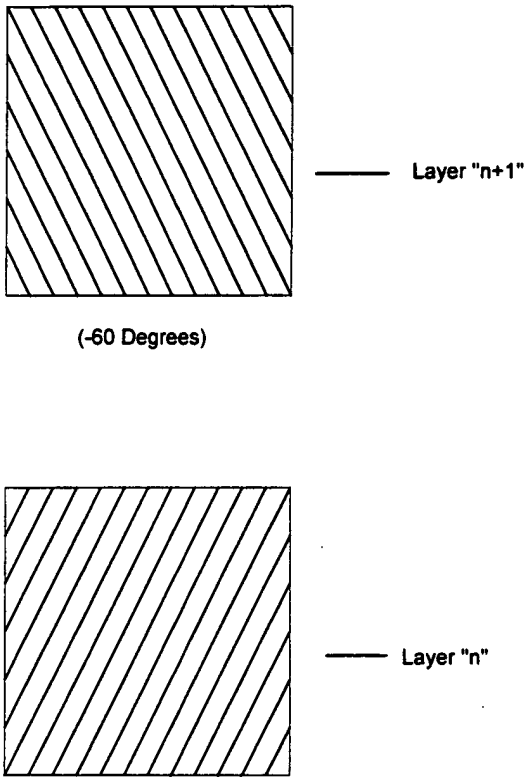


Figure 3a

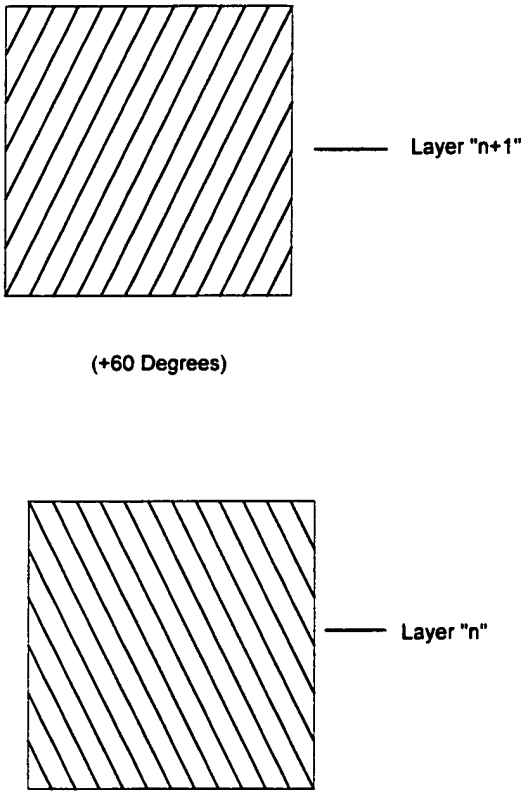


Figure 3b

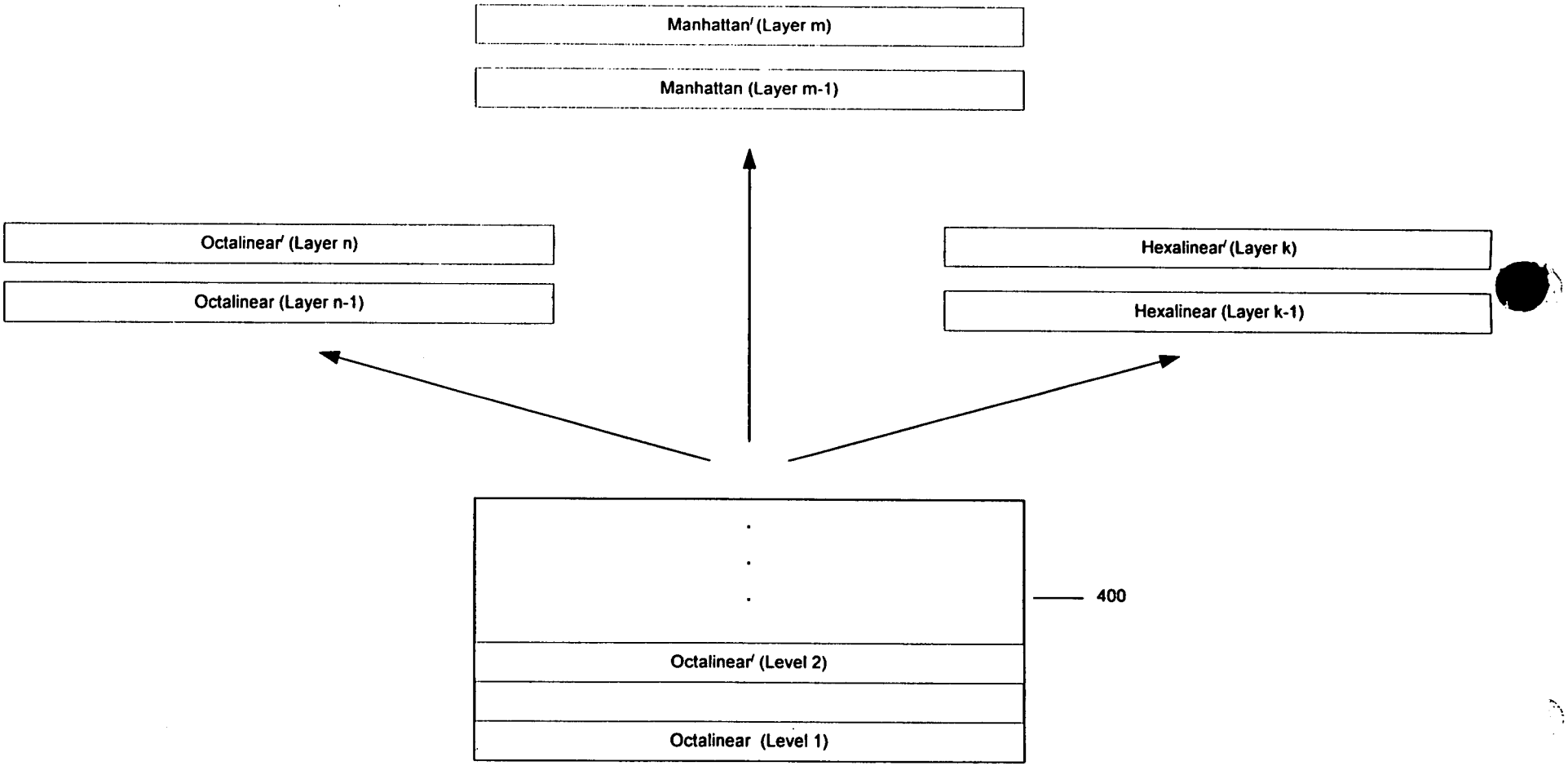

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
400
Octalinear' (Level 2)
Octalinear (Level 1)

Figure 4a

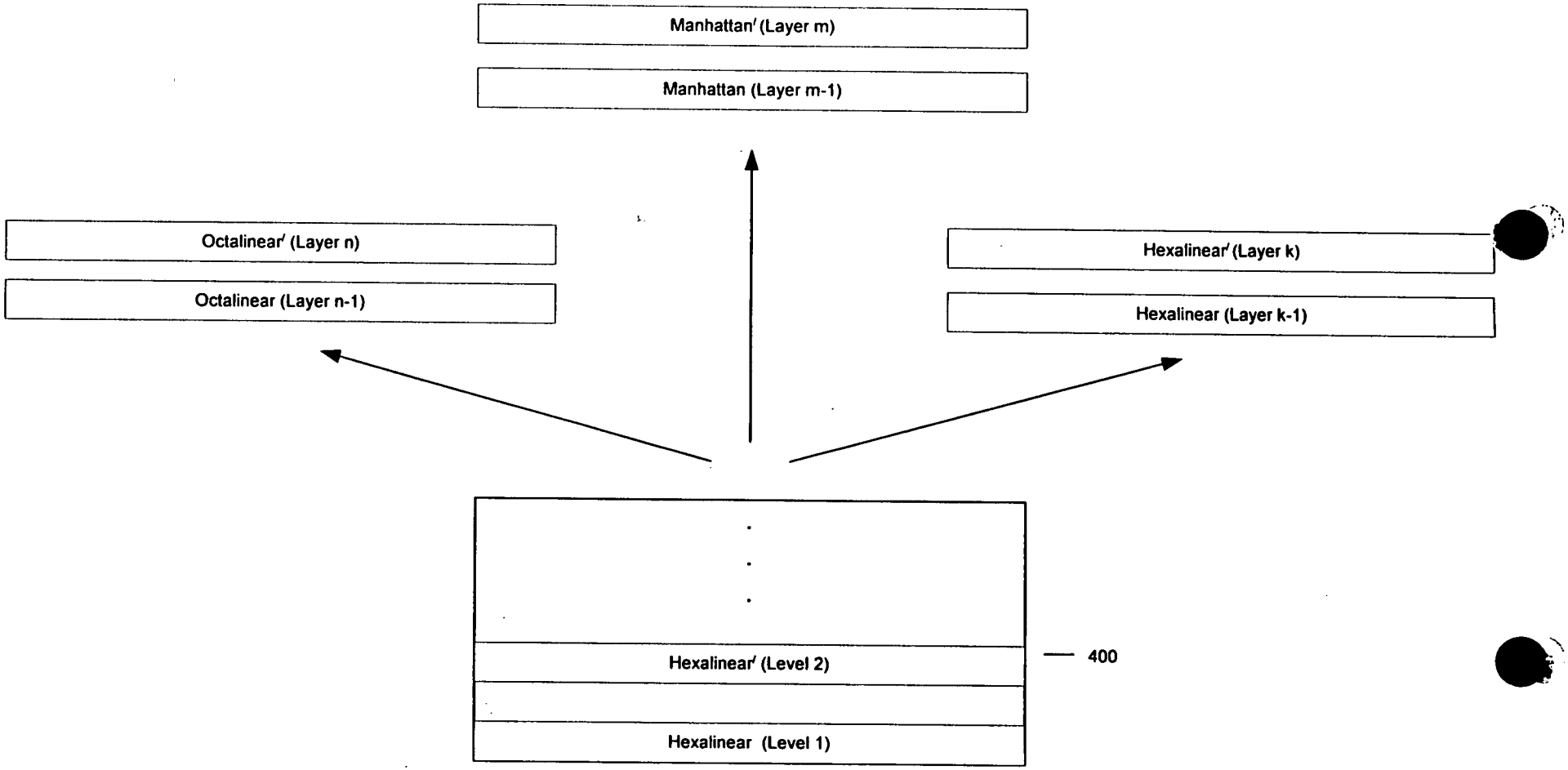

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
Hexalinear' (Level 2)
Hexalinear (Level 1)
400

Figure 4b

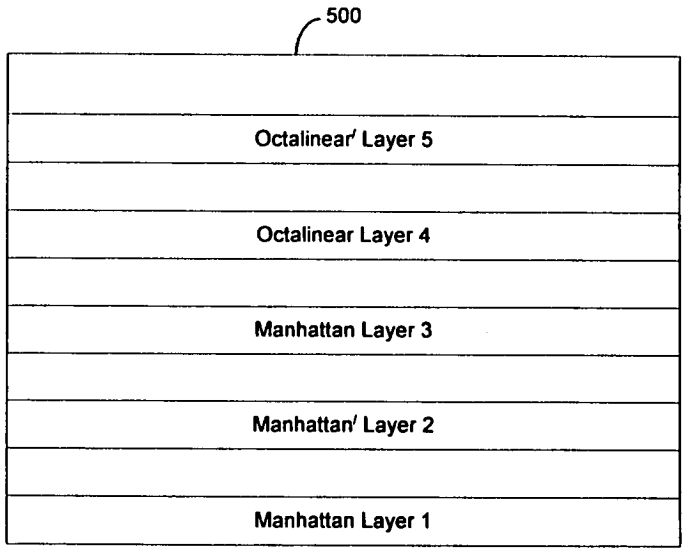

500
Octalinear' Layer 5
Octalinear Layer 4
Manhattan Layer 3
Manhattan' Layer 2
Manhattan Layer 1

Figure 5a

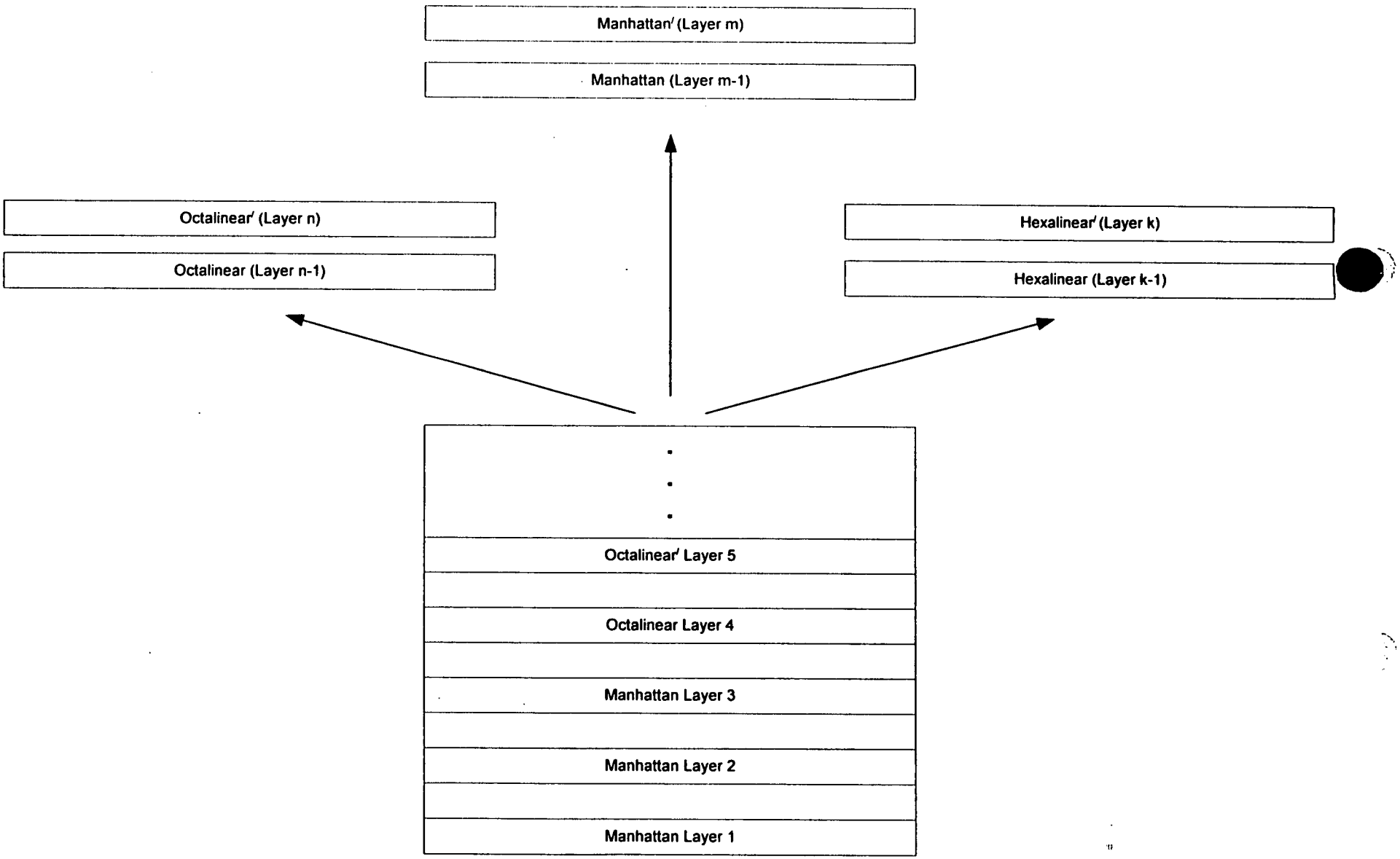
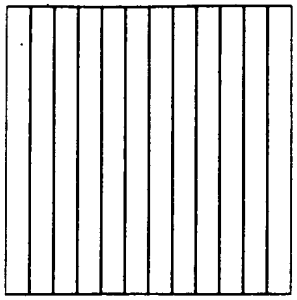
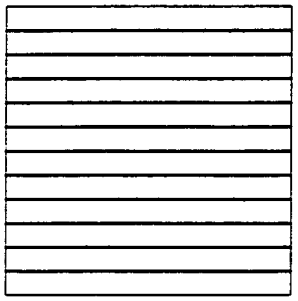

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
Octalinear' Layer 5
Octalinear Layer 4
Manhattan Layer 3
Manhattan Layer 2
Manhattan Layer 1

Figure 5b



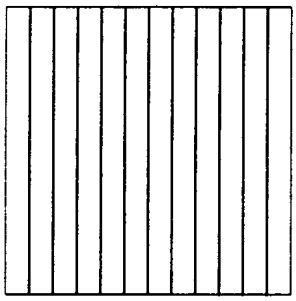
Layer 3

Vertical



Layer 2

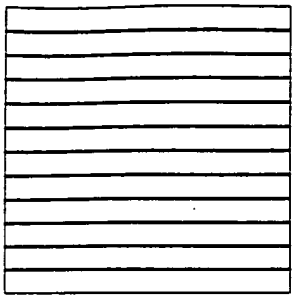
Horizont



Layer 1

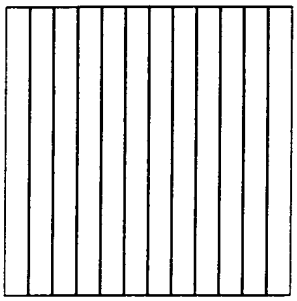
Vertical

Figure 6b



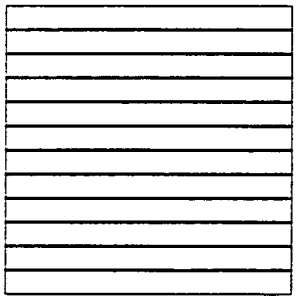
Layer 3

Horizont



Layer 2

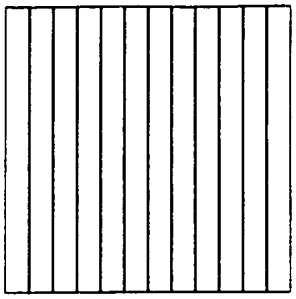
Vertical



Layer 1

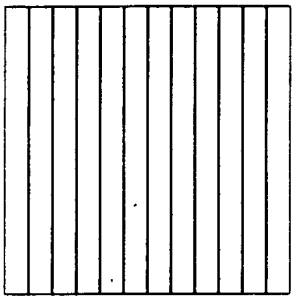
Horizont

Figure 6a



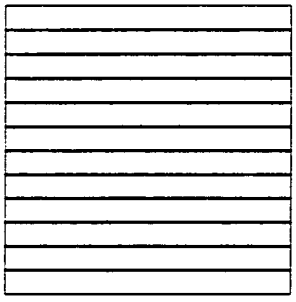
Layer 3

Vertical



Layer 2

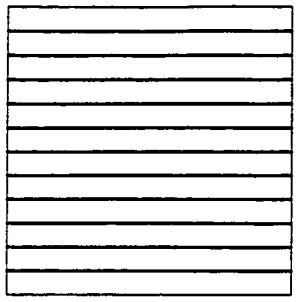
Vertical



Layer 1

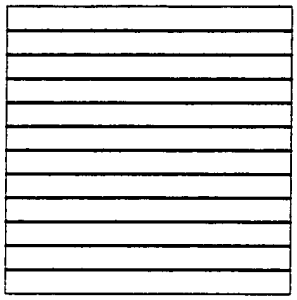
Horizont

Figure 6c



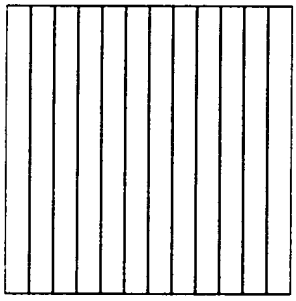
Layer 3

Horizont



Layer 2

Horizont



Layer 1

Vertical

Figure 6d

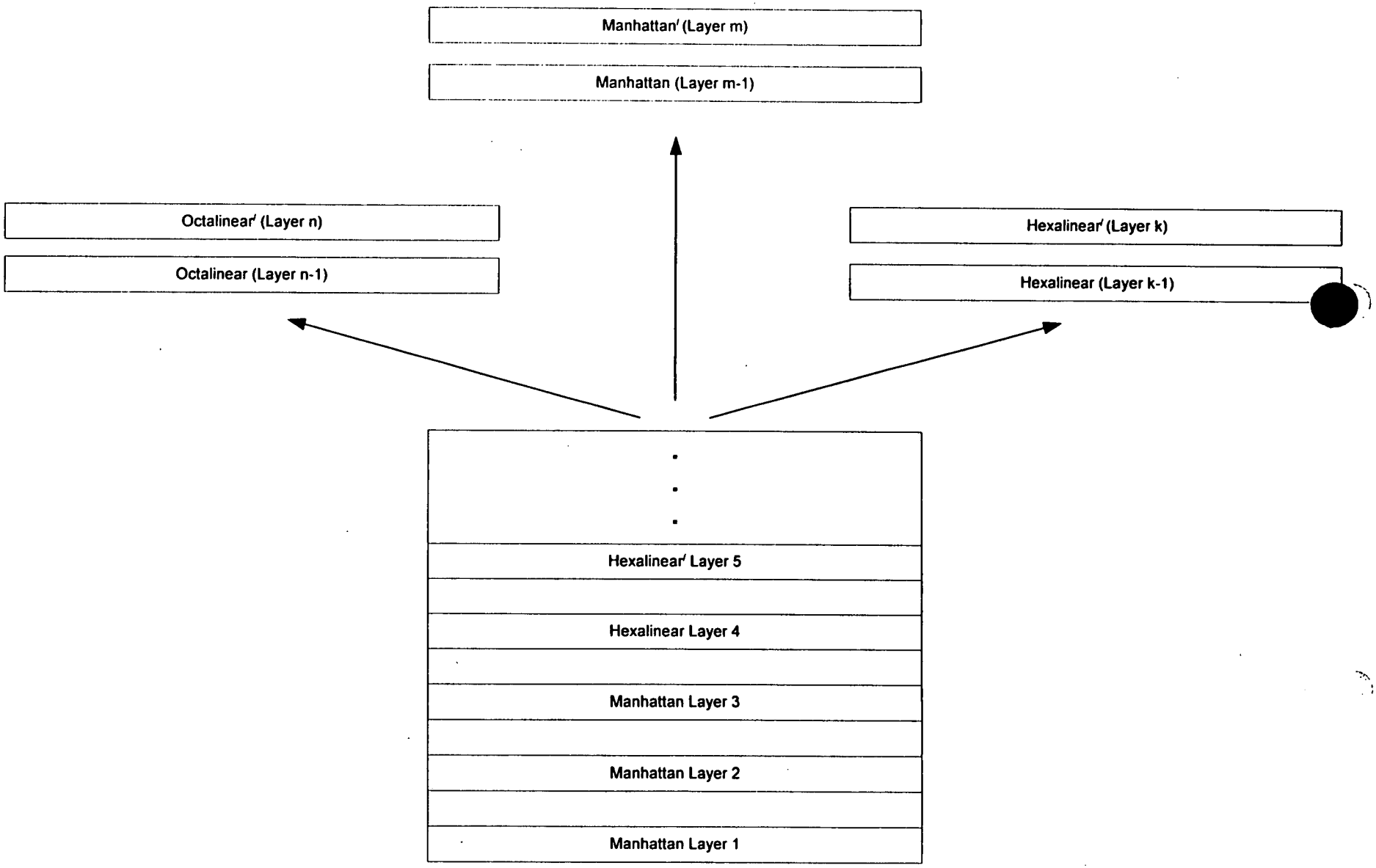

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
Hexalinear' Layer 5
Hexalinear Layer 4
Manhattan Layer 3
Manhattan Layer 2
Manhattan Layer 1

Figure 7

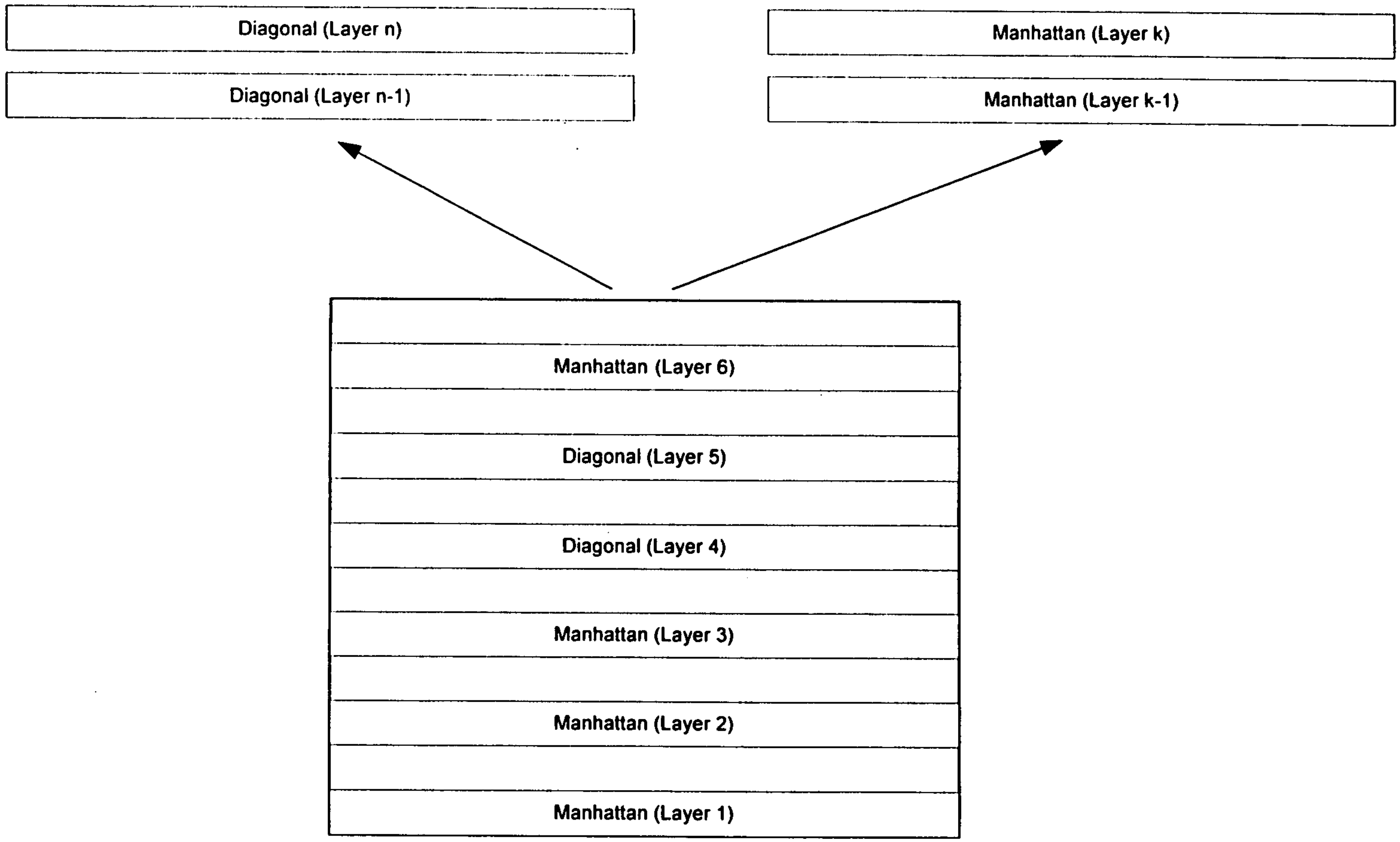

Diagonal (Layer n)
Diagonal (Layer n-1)
Manhattan (Layer k)
Manhattan (Layer k-1)
Manhattan (Layer 6)
Diagonal (Layer 5)
Diagonal (Layer 4)
Manhattan (Layer 3)
Manhattan (Layer 2)
Manhattan (Layer 1)

Figure 8

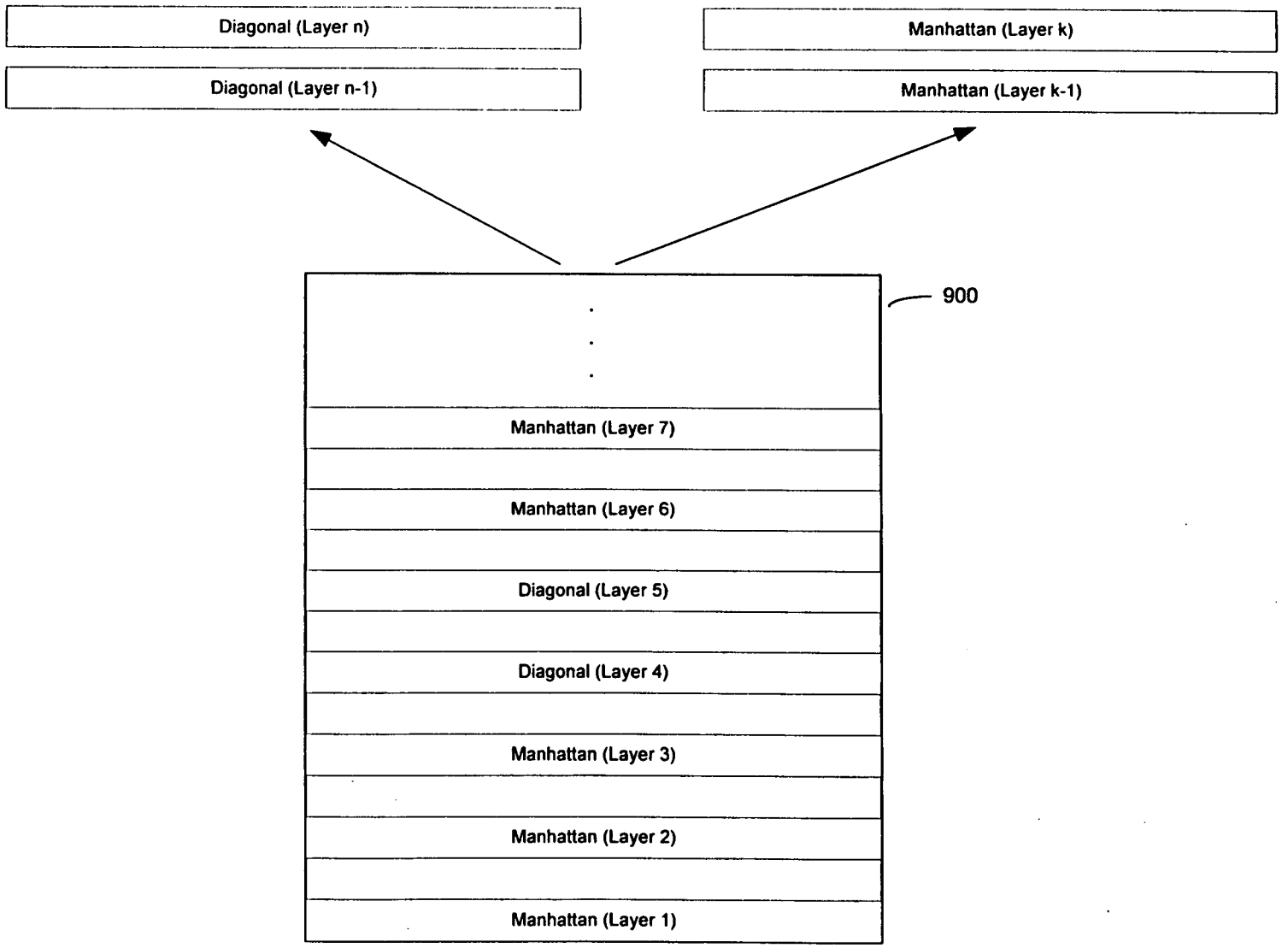

Diagonal (Layer n)
Diagonal (Layer n-1)
Manhattan (Layer k)
Manhattan (Layer k-1)
900
Manhattan (Layer 7)
Manhattan (Layer 6)
Diagonal (Layer 5)
Diagonal (Layer 4)
Manhattan (Layer 3)
Manhattan (Layer 2)
Manhattan (Layer 1)

Figure 9

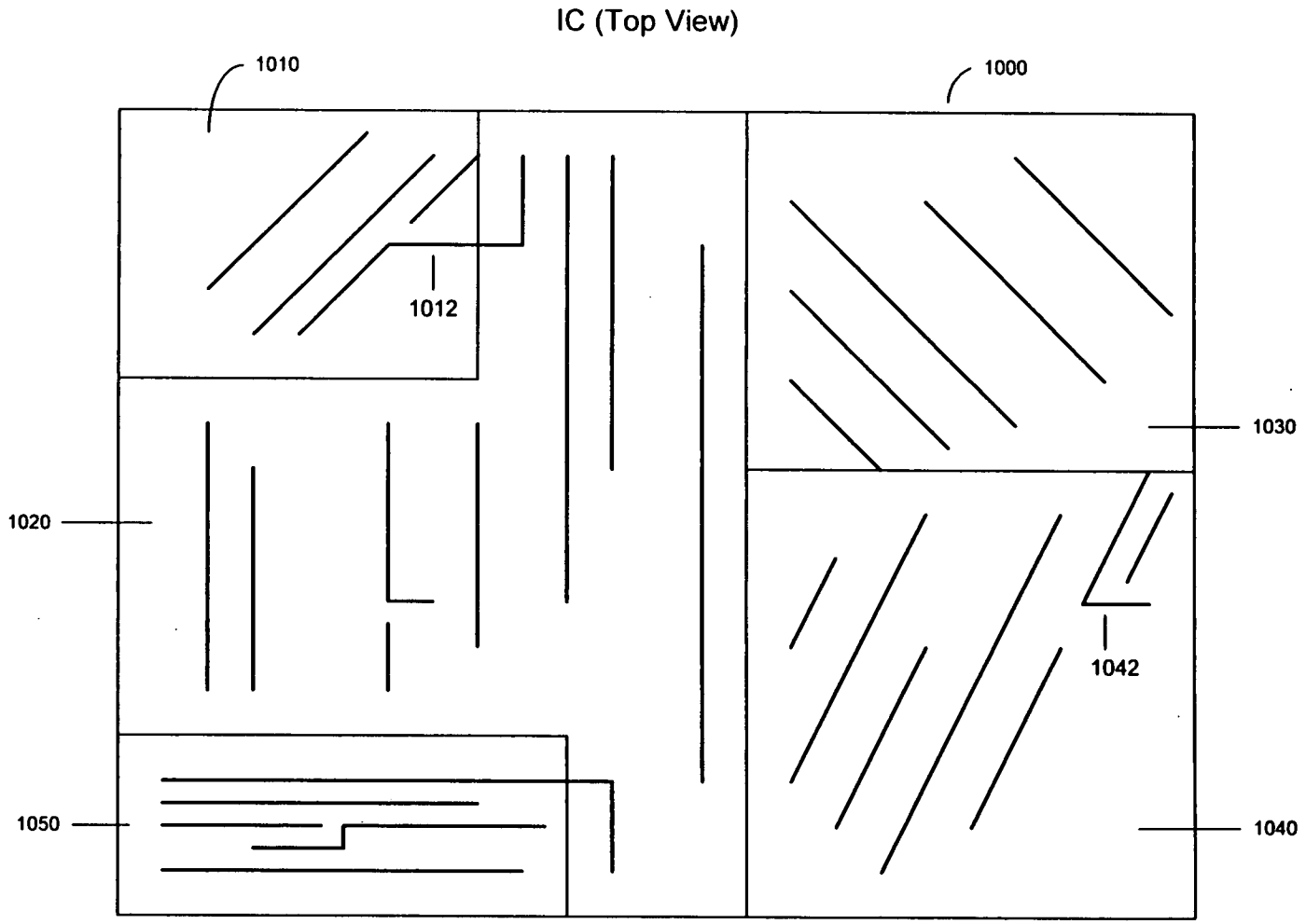


Figure 10

IC (Top View)

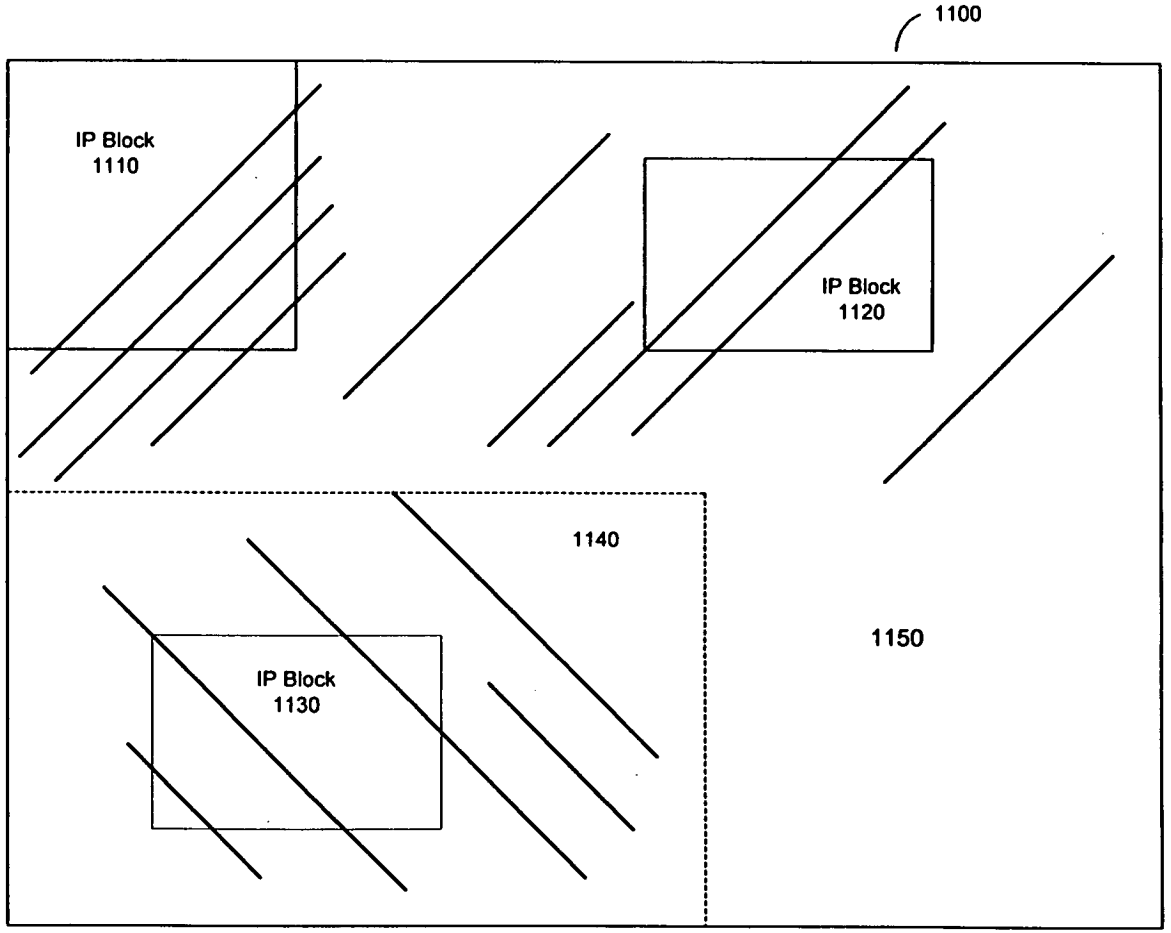


Figure 11

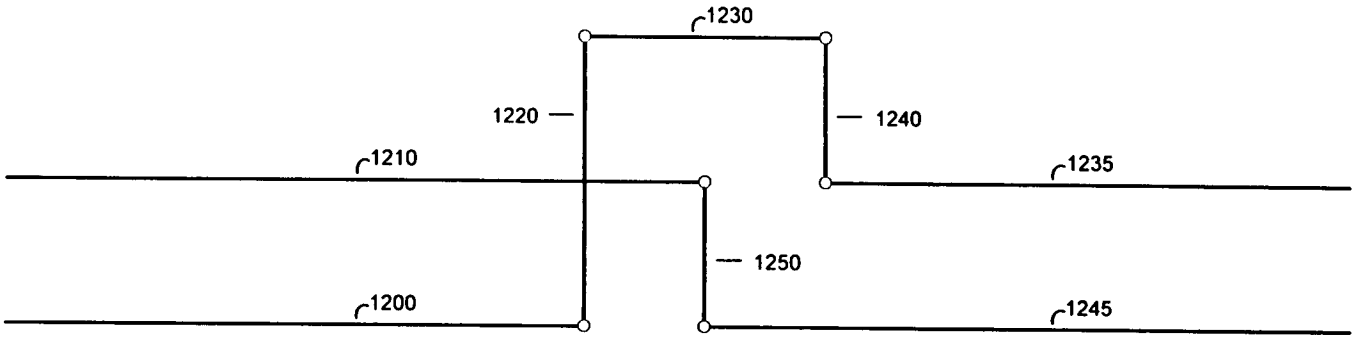


Figure 12a

Prior Art

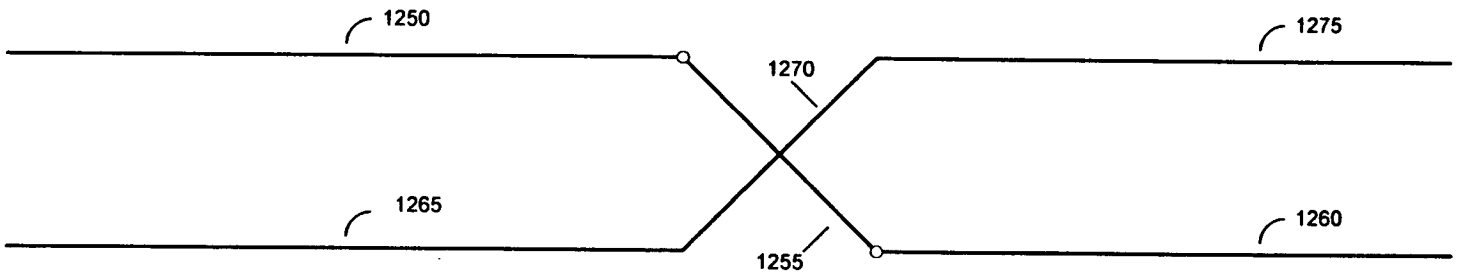


Figure 12b

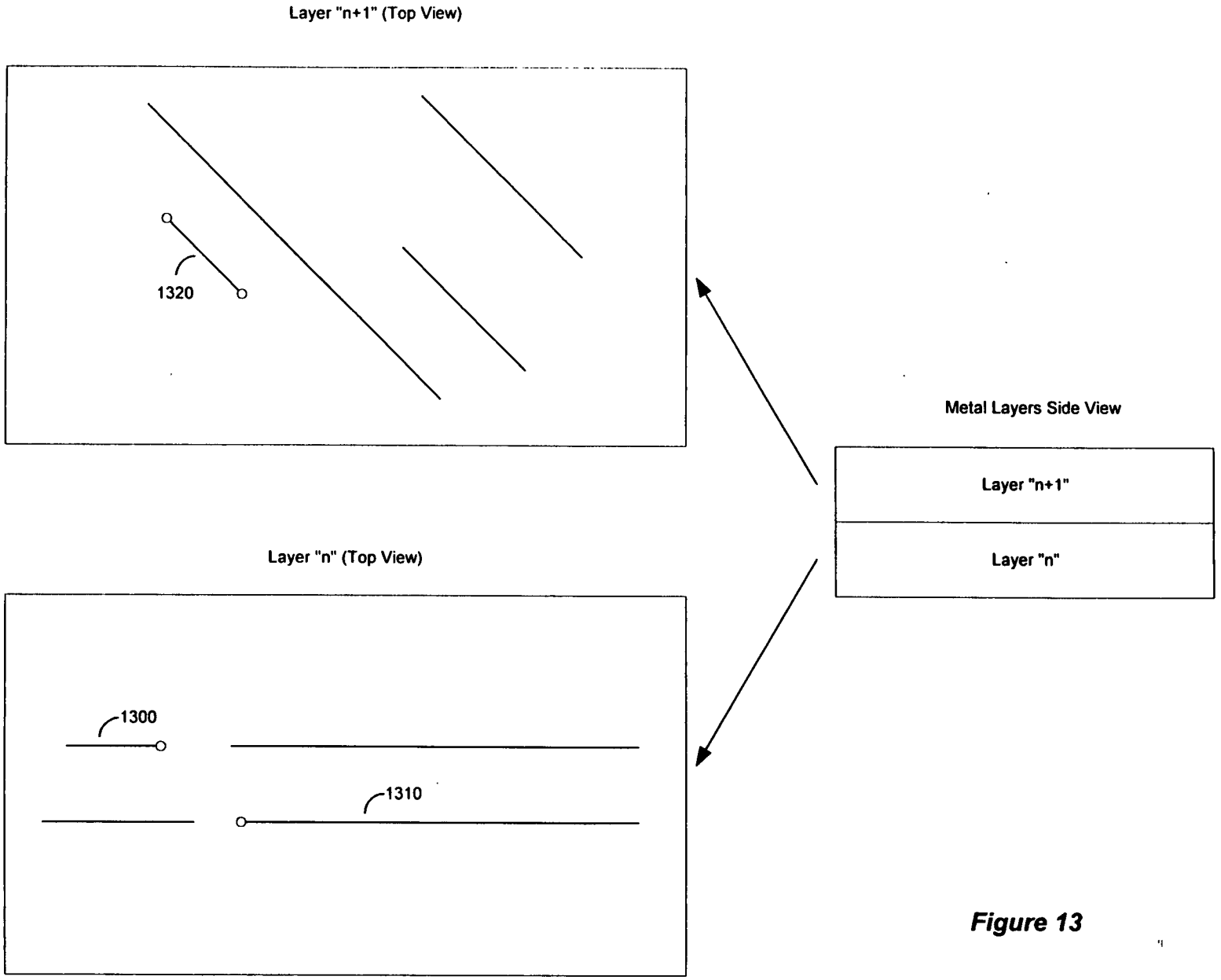

Layer "n+1" (Top View)
1320
Metal Layers Side View
Layer "n+1"
Layer "n"
Layer "n" (Top View)
1300
1310

Figure 13

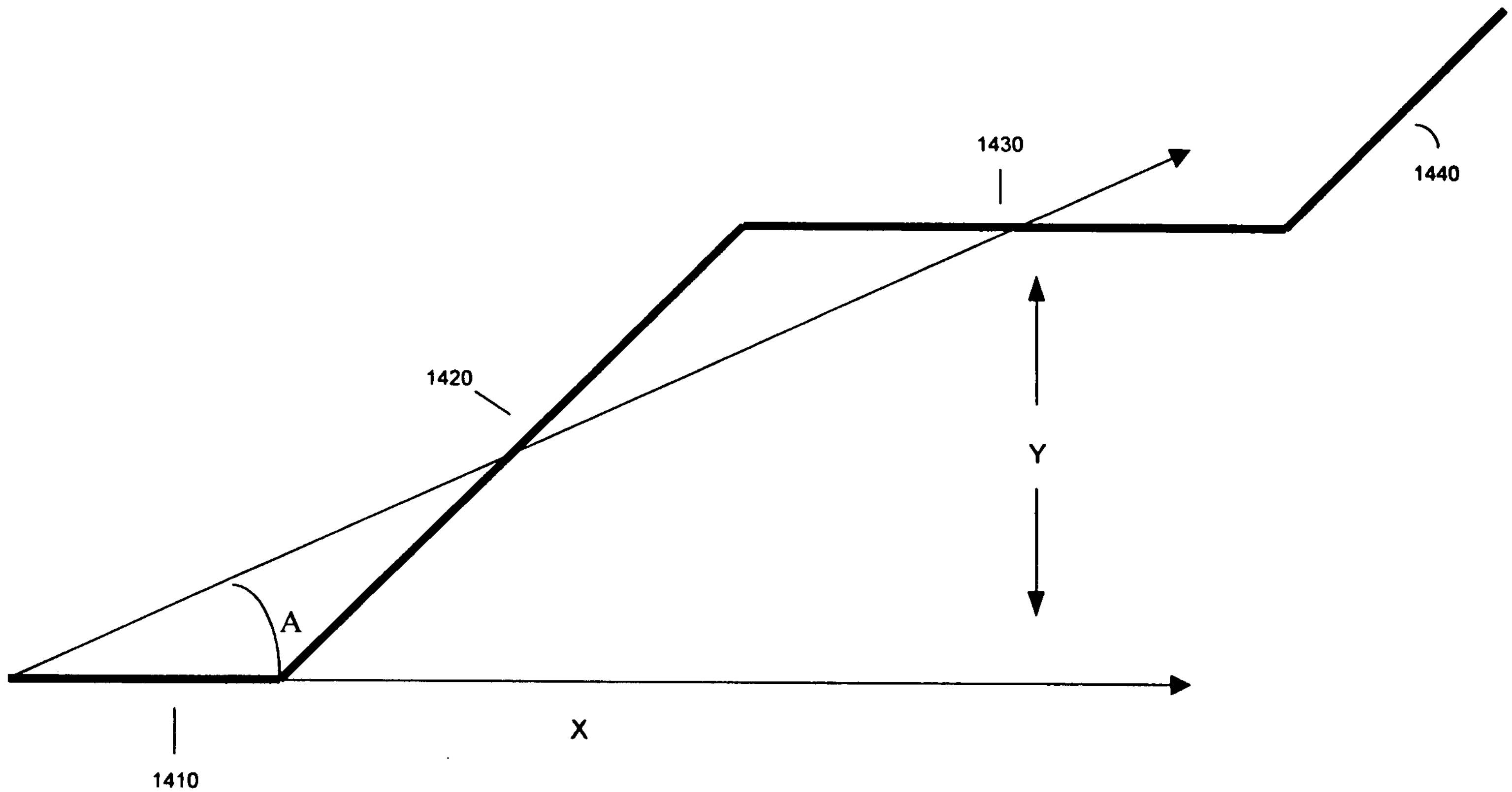


Figure 14

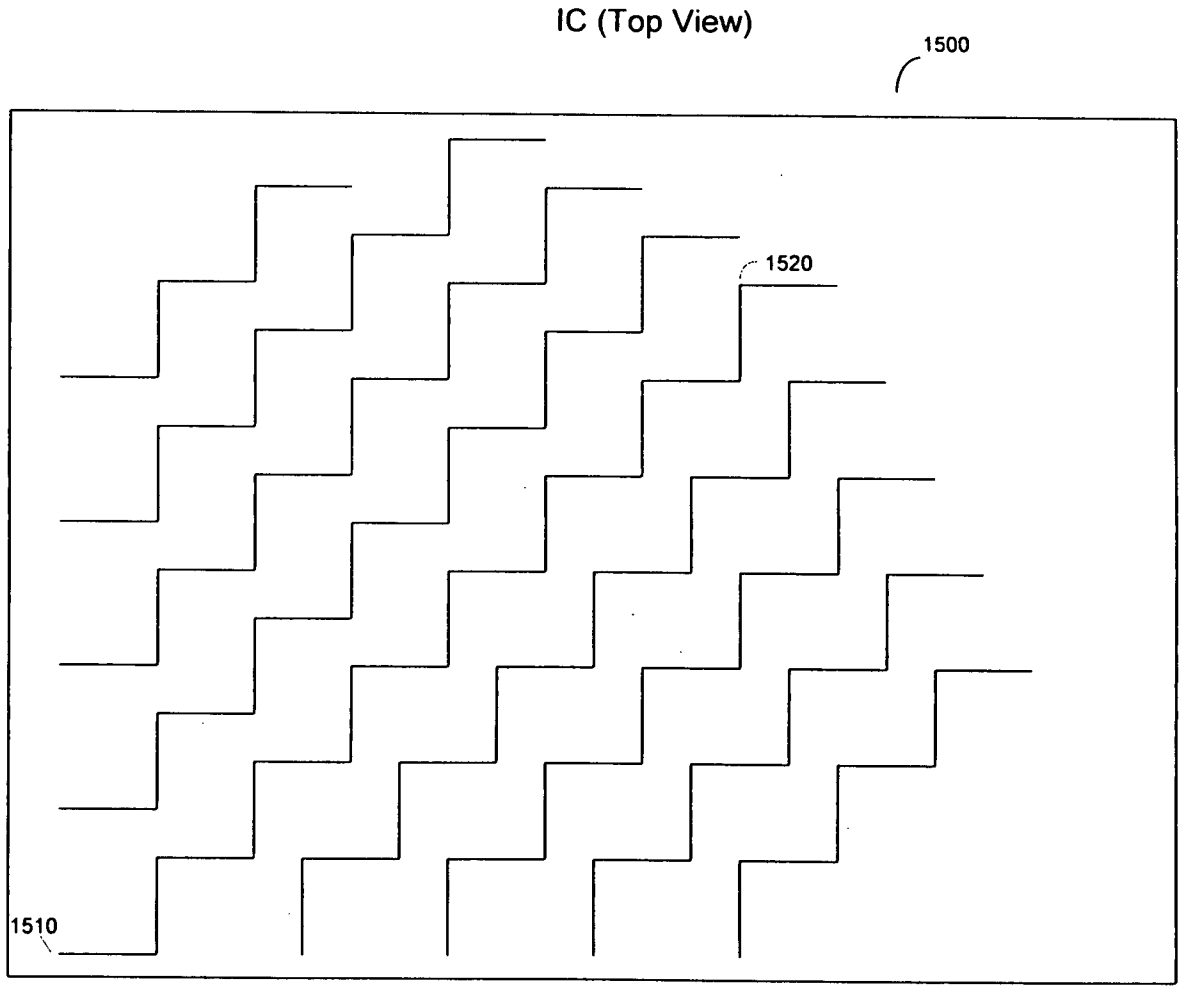


Figure 15

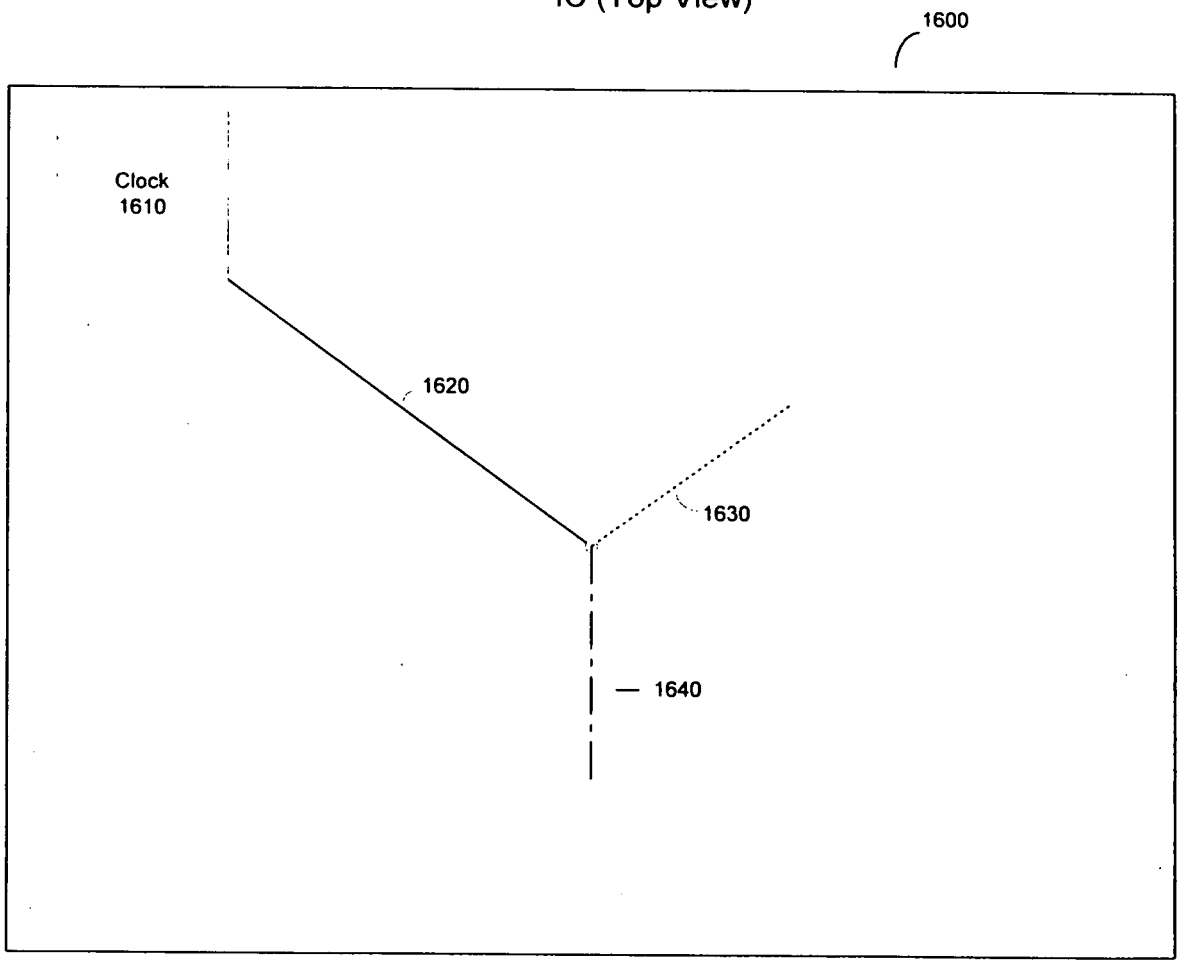


Figure 16